

SEQUENCE LISTING

<110> Sorscher, Eric

<120> MUTANT PURINE NUCLEOSIDE PHOSPHORYLASE PROTEINS AND CELLULAR DELIVERY THEREOF

<130> UAB-20702/22

<160> 4

<170> PatentIn version 3.1

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<212> DNA

<213> Escherichia coli

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Phe Thr Gly Thr Tyr Lys Gly Arg Lys Ile Ser Val Met Gly His Gly
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Val Gly Ile Pro Ser Cys Ser Ile Tyr Thr Lys Glu Leu Ile Thr Asp
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Phe Gly Val Lys Lys Ile Ile Arg Val Gly Ser Cys Gly Ala Val Leu
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Pro His Val Lys Leu Arg Asp Val Val Ile Gly Met Gly Ala Cys Thr
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Asp Ser Lys Val Asn Arg Ile Arg Phe Lys Asp His Asp Phe Ala Ala
115 120 125

Ile Ala Asp Phe Asp Met Val Arg Asn Ala Val Asp Ala Ala Lys Ala
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Leu Gly Ile Asp Ala Arg Val Gly Asn Leu Phe Ser Ala Asp Leu Phe
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Tyr Ser Pro Asp Gly Glu Met Phe Asp Val Met Glu Lys Tyr Gly Ile
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Leu Gly Val Glu Met Glu Ala Ala Gly Ile Tyr Gly Val Ala Ala Glu
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Phe Gly Ala Lys Ala Leu Thr Ile Cys Thr Val Ser Asp His Ile Arg
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<212> DNA

<213> Escherichia coli

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<210> 4

<211> 239

<212> PRT

<213> Escherichia coli

<400> 4

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Phe	Leu	Glu	Asp	Ala	Arg	Glu	Val	Asn	Asn	Val	Arg	Gly	Met	Leu	Gly
		35					40					45			

Phe	Thr	Gly	Thr	Tyr	Lys	Gly	Arg	Lys	Ile	Ser	Val	Met	Gly	His	Gly
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Met	Gly	Ile	Pro	Ser	Cys	Ser	Ile	Tyr	Thr	Lys	Glu	Leu	Ile	Thr	Asp
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Phe	Gly	Val	Lys	Lys	Ile	Ile	Arg	Val	Gly	Ser	Cys	Gly	Ala	Val	Leu
				85					90					95	

Pro His Val Lys Leu Arg Asp Val Val Ile Gly Met Gly Ala Cys Thr
 100 105 110

Asp Ser Lys Val Asn Arg Ile Arg Phe Lys Asp His Asp Phe Ala Ala
 115 120 125

Ile Ala Asp Phe Asp Met Val Arg Asn Ala Val Asp Ala Ala Lys Ala
 130 135 140

Leu Gly Ile Asp Ala Arg Val Gly Asn Leu Phe Ser Val Asp Leu Phe
 145 150 155 160

Tyr Ser Pro Asp Gly Glu Met Phe Asp Val Met Glu Lys Tyr Gly Ile
 165 170 175

Leu Gly Val Glu Met Glu Ala Ala Gly Ile Tyr Gly Val Ala Ala Glu
 180 185 190

Phe Gly Ala Lys Ala Leu Thr Ile Cys Thr Val Ser Asp His Ile Arg
 195 200 205

Thr His Glu Gln Thr Thr Ala Ala Glu Arg Gln Thr Thr Phe Asn Asp
 210 215 220

Met Ile Lys Ile Ala Leu Glu Ser Val Leu Leu Gly Asp Lys Glu
 225 230 235